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Indoor Comfort in Residential Buildings: Research on Energy Efficiency and Thermal Perception

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Deadline for manuscript submissions:
closed (15 February 2024)

Message from the Guest Editors

Dear Colleagues,

This Special Issue will focus on intervention strategies in residential buildings that regarding on a balanced relationship between the energy efficiency of the buildings and the thermal comfort of the inhabitants. The theme of energy efficiency relates to different contexts, such as architectural heritage or so-called 'energy poverty'. This specific concept is commonly used in situations where the population is unable to ensure an adequate comfort level during winter or summer due to several factors, such as salary, energy costs, or the physical characteristics (architectural and constructive) of their buildings.

This Special Issue welcomes original research that crosses different disciplinary areas and diverse methodologies concerning the analysis and development of intervention strategies for residential buildings; performance evaluations; architectural and constructive solutions; materials characterization and preservation approaches; indoor comfort; or inhabitants' experiences in space use and energy consumption.

We look forward to receiving your contributions.

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Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

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